APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/843,494	04/25/2001	Hyon T. Kim	5181-68400	9278

7590 08/13/2004	EXAMINER

Robert C. Kowert
Conley, Rose & Tayon, P.C.
P.O. Box 398
Austin, TX 78767

PATEL, NIKETA I

ART UNIT	PAPER NUMBER
2182	

DATE MAILED: 08/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/843,494	KIM, HYON T.
	Examiner	**Art Unit**	
	Niketa I. Patel	2182	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *25 April 2001*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-50* is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.   '

6)☒ Claim(s) *1-50* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

FRITZ FLEMING
PRIMARY EXAMINER
GROUP 2100

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *25 April 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All   b)☐ Some *   c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892) ˀ

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date *7/15-1/21/03 1/11/*. ,

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

Specification

1.   The title of the invention is not descriptive. A new title

is required that is clearly indicative of the invention to which

the claims are directed.

Claim Rejections - 35 USC § 102

2.   The following is a quotation of the appropriate paragraphs

of 35 U.S.C. 102 that form the basis for the rejections under

this section made in this Office action:

> A person shall be entitled to a patent unless -
>
> (b) The invention was patented or described in a printed publication in this or
> a foreign country or in public use or on sale in this country, more than one
> year prior to the date of application for patent in the United States.

3.   Claims 1-3, 5-17, 19-21, 23-25, 27-31, 33-35 and 37-49 are

rejected under 35 U.S.C. 102(b) as being anticipated by

Schettler et al. U.S. Patent Number: 5,872,932 (hereinafter

referred to as "*Schettler*".)

4.   **Referring to claims 1, 19, 33,** *Schettler* teaches a method

for managing accessibility of fabric devices from a host system,

comprising: storing a plurality of configuration repositories

[see column 6 - lines 1-4, 'data bases (topology and map)'],

wherein each one of said plurality of configuration repositories

identifies one or more fabric devices [see column 6 - lines 24-

33]; receiving a request to online fabric devices according to a

specified one of said plurality of configuration repositories

[see column 6 - lines 59-67 and column 7 - lines 1-4, 'on-

demand' and column 14 - lines 48-61]; accessing the specified

configuration repository [see column 6 - lines 24-33]; and

requesting a configuration operation to online, for the host

system, one or more of the fabric devices identified in the

specified configuration repository [see column 2 - lines 29-36,

column 6 - lines 34-58 and column 7 - lines 55-63.]

5.   **Referring to claims 2, 20, 34,** *Schettler* teaches wherein

said requesting a configuration operation comprises requesting a

fabric driver to create an operating system node for each

identified fabric device not already online and requested to be

brought online [see column 6 - lines 24-58.]

6.   **Referring to claims 3, 21, 35,** *Schettler* teaches wherein

said requesting a configuration operation comprises: indicating

a desired configuration status for each fabric device identified

in the specified configuration repository [see column 6 - lines

59-67 and column 7 - lines 1-4]; requesting a fabric driver to

create an operating system node for each identified fabric

device not already online whose desired configuration status is

configure [see column 7 - lines 21-48 and column 9 - lines 38-

48]; and requesting a fabric driver to deactivate or delete an

operating system node for each identified fabric device whose

desired configuration status is unconfigure [see column 7 -

lines 21-54 and column 9 - lines 38-48.]

7.   **Referring to claims 5, 23, 37,** *Schettler* teaches wherein

said requesting a configuration operation comprises requesting a

fabric driver to verify the availability of each identified

fabric device on the fabric [see column 7 - lines 21-48.]

8.   **Referring to claims 6, 27, 38,** *Schettler* teaches further

comprising creating one of said configuration repositories by:

receiving a request for a list of fabric devices available to a

host system [see column 6 - lines 59-67 and column 7 - lines 1-

4]; providing said list in response to the request [see column 6

- lines 24-58]; receiving an indication of selected fabric

devices from said list [see column 6 - lines 59-67 and column 7

- lines 1-4]; and creating one of said plurality of

configuration repositories for identifying the selected fabric

devices [see column 6 - lines 24-58.]

9.   **Referring to claims 7, 39,** *Schettler* teaches wherein said

creating one of said configuration repositories further

comprises requesting a configuration operation to configure for

the host system the selected fabric devices from said list

according to their indicated desired configuration status [see

column 6 - lines 59-67 and column 7 - lines 1-4.]

10. **Referring to claims 8, 40,** *Schettler* teaches the method as recited in claim 6, wherein said providing said list comprises obtaining said list from a fabric driver **[see column 5 – lines 65-67 and column 6 – lines 1-11, `operating system and conventional network software'.]**

11. **Referring to claims 9, 28, 41,** *Schettler* teaches the method as recited in claim 6, wherein said providing said list comprises displaying said list to a user **[see 5 column – lines 62-65, `display' and column 8 – lines 25-36.]**

12. **Referring to claims 10, 29, 42,** *Schettler* teaches further comprising modifying one of said configuration repositories by: providing entries from a specified one of said configuration repositories **[see column 8 – lines 46-67, column 9 – lines 1-10, 26-48]**; receiving a request to delete an entry for one of the fabric devices identified in the specified configuration repository **[see column 4 – lines 11-36, column 8 – lines 46-67, column 9 – lines 1-10, 26-48]**; and in response to said request to delete, updating the specified one of said configuration repositories to delete said entry **[see column 8 – lines 46-67, column 9 – lines 1-10, 26-48.]**

13. **Referring to claims 11, 30, 43,** *Schettler* teaches further comprising modifying one of said configuration repositories by: providing entries from a specified one of said configuration

repositories [see column 8 – lines 46-67, column 9 – lines 1-10,

26-48]; receiving a request to change the desired configuration

status for one of the fabric devices identified in the specified

configuration repository [see column 8 - lines 46-67, column 9 -

lines 1-10, 26-48]; and in response to said request to change

the desired configuration status, updating the specified one of

said configuration repositories to indicate the requested change

to the desired configuration status [see column 8 - lines 46-67,

column 9 - lines 1-10, 26-48.]

14.   **Referring to claims 12, 44,** *Schettler* teaches wherein said

modifying one of said configuration repositories further

comprises requesting a fabric driver to verify the availability

on the fabric of each fabric device identified in the modified

configuration repository [see column 9 – lines 26-48.]

15.   **Referring to claims 13, 45,** *Schettler* teaches wherein said

modifying one of said configuration repositories further

comprises requesting a fabric driver to create an operating

system node for each fabric device not already online whose

desired configuration status is configure [see column 4 – lines

11-36, see column 6 – lines 59-67 and column 7 – lines 1-4.]

16.   **Referring to claims 14, 46,** *Schettler* teaches further

comprising modifying one of said configuration repositories by:

providing a list of fabric devices available to the host system

[see column 6 - lines 1-4, 'data bases (topology and map)'];

receiving an indication of one or more selected fabric devices

from said list with desired configuration status for each

selected fabric device to be added to a specified one of said

configuration repositories [see column 6 - lines 59-67 and

column 7 - lines 1-4]; and updating the specified one of said

configuration repositories to add entries for each selected

fabric device [see column 8 - lines 46-67, column 9 - lines 1-

10, 26-48.]

17. **Referring to claims 15, 47,** *Schettler* teaches wherein said

modifying one of said configuration repositories further

comprises requesting a fabric driver to verify the availability

on the fabric of each fabric device identified in the modified

configuration repository prior to said updating [see column 9 -

lines 26-48.]

18. **Referring to claims 16, 48,** *Schettler* teaches wherein said

modifying one of said configuration repositories further

comprises requesting a fabric driver to create an operating

system node for each fabric device not already online whose

desired configuration status is to be configured for the

modified configuration repository [see column 4 - lines 11-36,

see column 6 - lines 59-67 and column 7 - lines 1-4.]

19. **Referring to claims 17, 31, 49,** *Schettler* teaches wherein

one of said plurality of configuration repositories is a

persistent repository indicating a default fabric device

configuration for the host system [see column 4 - lines 11-36.]

20. **Referring to claim 24,** *Schettler* teaches wherein said

standard interface for verifying is configured to, in response

to a verification request specifying one of said configuration

repositories, request said fabric driver to verify the

availability on the fabric of the fabric devices identified in

the specified configuration repository [see column 7 - lines 21-

63 and column 9 - lines 25-48.]

21. **Referring to claim 25,** *Schettler* teaches wherein said

fabric driver is configured to, in response to said request to

verify, access a fabric name server to determine availability of

the fabric devices identified in the specified configuration

repository [see column 7 - lines 21-63, 'topology data- device

address'.]

Claim Rejections - 35 USC § 103

22. The following is a quotation of 35 U.S.C. 103(a) which

forms the basis for all obviousness rejections set forth in this

Office action:

(a) A patent may not be obtained though the invention is not identically
disclosed or described as set forth in section 102 of this title, if the
differences between the subject matter sought to be patented and the prior
art are such that the subject matter as a whole would have been obvious at
the time the invention was made to a person having ordinary skill in the
art to which said subject matter pertains. Patentability shall not be
negatived by the manner in which the invention was made.

23.   Claims 4, 22 and 36 are rejected under 35 U.S.C. 103(a) as

being unpatentable over Schettler et al. U.S. Patent Number:

5,872,932 (hereinafter referred to as "Schettler") and further

in view of Tonelli et al. U.S. Patent Number: 6,229,540

(hereinafter referred to as "Tonelli".)

24.   **Referring to claim 4, 22, 36,** Schettler teaches to

requesting a fabric driver to deactivate or delete an operating

system node [see Schettler column 4 - lines 11-36, column 8 -

lines 46-67, column 9 - lines 1-10, 26-48] however does not set

forth the limitation of receiving a warning that one of the

identified fabric devices whose desired configuration status is

unconfigure is in-use for the host system and in response to

said receiving a warning, canceling deactivation or deletion of

the operating system node for the in-use fabric device. Tonelli

teaches the above limitation [see Tonelli column 11 - lines 41-

51] to prevent system malfunction.

It would have been obvious to one of ordinary skill in the

art at the time of applicant's invention that it was old and

well know in the computer art to get the advantage of preventing

system malfunction by providing a warning indication when a

device that is in use is being deleted. It would have been

obvious to one of ordinary skill in the art at the time of

applicant's invention to include a warning that one of the

identified fabric devices whose desired configuration status is

unconfigure is in-use for the host system and canceling

deactivation or deletion of the operating system node for the

in-use fabric device to get this advantage.

25.   Claims 18, 32 and 50 are rejected under 35 U.S.C. 103(a) as

being unpatentable over Schettler et al. U.S. Patent Number:

5,872,932 (hereinafter referred to as "*Schettler*") and further

in view of Anderson U.S. Patent Number: 5,974,546 (hereinafter

referred to as "*Anderson*".)

26.   **Referring to claims 18, 32, 50,** *Schettler* teaches further

comprising modifying one of said configuration repositories [see

Schettler column 8 – lines 46-67, column 9 – lines 1-10, 26-48]

however does not set forth the limitation of in response to a

reboot of the host system, reading said persistent repository

and requesting a configuration operation to configure for the

host system the fabric devices identified in the persistent

repository according to said default fabric device

configuration. *Anderson* teaches the above limitation [see

Anderson column 2 – lines 31-42] to allow the system to
reconfigure itself after a system changes such as a reboot of a
host system.

It would have been obvious to one of ordinary skill in the
art at the time of applicant's invention that it was old and
well know in the computer art to get the advantage of being able
to use default configuration in order to allow the system to
reconfigure itself a after system changes such as reboot of a
host system. It would have been obvious to one of ordinary skill
in the art at the time of applicant's invention to include
reading said persistent repository and requesting a
configuration operation to configure for the host system the
fabric devices identified in the persistent repository according
to said default fabric device configuration to get this
advantage.

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27.   Claim 26 is rejected under 35 U.S.C. 103(a) as being
unpatentable over Schettler et al. U.S. Patent Number: 5,872,932
(hereinafter referred to as "*Schettler*") and further in view of
Williams et al. U.S. Patent Number: 6,344,862 (hereinafter
referred to as "*Williams*".)

28.   **Referring to claim 26,** *Schettler* teaches to verify the
availability on the fabric of the fabric devices identified in

the specified configuration repository [see column 7 - lines 21-
63 and column 9 - lines 25-48] however, does not set forth the
limitation of wherein if one of the fabric devices is determined
not to be available in response to said verification request,
said fabric configuration interface is configured to obtain a
list of available fabric devices from the fabric driver for
selecting a replacement for the unavailable fabric device.
Williams teaches the above limitations [see *Williams* column 5 -
lines 14-25] in order to provide a user with alternate means of
completing a job.

It would have been obvious to one of ordinary skill in the
art at the time of applicant's invention to include means for
determining alternate devices to be used in case of a primary
device malfunctions in order to provide a user with alternate
means of completing a job. It would have been obvious to one of
ordinary skill in the art at the time of applicant's invention
to include a list of available fabric devices from the fabric
driver for selecting a replacement for the unavailable fabric
device to provide a user with alternate means of completing a
job.

Conclusion

29. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Odenwald et al. U.S. Patent Number: 6,728,789

Ricciulli U.S. Patent Number: 6,473,405

Srinivasan et al. U.S. Patent Number: 6,304,549

Shah et al. U.S. Patent Number: 6,694,361

Lin et al. U.S. Patent Number: 6,748,459

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Niketa I. Patel whose telephone number is (703) 305 4893. The examiner can normally be reached on M-F 8:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (703) 308 3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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08/04/2004

FRITZ FLEMING
PRIMARY EXAMINER
GROUP 2100